

# HoloMAS 2009

## 4<sup>rd</sup> International Conference on Industrial Applications of Holonic and Multi-Agent Systems

August 31 - September 2, 2009, Linz, Austria

<http://cyber.felk.cvut.cz/HoloMAS/2009/>

in conjunction with **DEXA 2009 events**

### ABOUT THE CONFERENCE

**Holonic and multi-agent systems** provide a novel paradigm for managing, modelling and supporting complex systems. This concept has proved to be successful in number of industrial domains such as manufacturing, real-time control, supply chain management, resource allocation and production planning/scheduling, air traffic.

**The conference aims** to bring together researchers active in the area of holonic and multi-agent systems together with key engineers and industrial decision makers to share their views and experience in **design, development** and **applying** holonic and multi-agent systems for industrial problems.

The conference will be held in technical cooperation with the OOONEIDA Group and EU Project I\*PROMS and the technical co-sponsorship of the TC on Distributed Intelligent Systems, IEEE System, Man and Cybernetics Society.

### SUGGESTED TOPICS (but not limited to):

- **Theoretical backgrounds** behind holonic/agent concepts
- **Industrial applications** of holonic and multi-agent systems (case-studies are specially appreciated)
- Specification of holonic and agent-based **architectures and design methodologies**
- Differences and similarities between the concept of **holons and agents**
- Communication principles and **standards**
- Virtual organisations & holonic factories - reconfigurable factories
- Agent-based **system integration**
- Modeling and **simulation tools**
- Reconfiguration tasks, coalition formation, knowledge ontologies
- Novel application areas (health-care, environmental protection, government, humanitarian missions)
- Visions and **future trends** of holonic and multi-agent systems
- Standardization issues, **security issues**, industrial needs
- Obstacles and **barriers to industrial applicability**

### PAPER SUBMISSION DETAILS

Authors are invited to submit research contributions or critiques of practical experience. Papers (in English) should **not exceed 10 pages in Springer Verlag format**. Authors are requested to submit their papers electronically to the conference web site. All accepted conference papers will be published in the conference proceedings in "Lecture Notes in Computer Science" (LNCS) series by Springer Verlag.

## IMPORTANT DATES

1. Submission deadline: February 28, 2009
2. Acceptance notice: April 15, 2009
3. Camera-ready copies: May 15, 2009

## CONFERENCE CO-CHAIRS:

Vladimir Marik	Czech Technical University in Prague/Rockwell Automation, CZ
Monique Calisti	Whitestein Technologies, CH
Thomas Strasser	Profactor, A

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